IN THE CLAIMS:

Please cancel claims 67-70.

Please amend claims 62, 63, and 65, as follows:

62. (Amended) A method for processing unified [streams of] media data streams, comprising the steps of:

receiving a [stream] plurality of unified media data streams transmitted over a data path, including presentation, transmission and storage information;

dynamically partitioning the unified [stream of media data into component fields of at least one bit] media data streams based on [the] an elemental symbol [size] width [of data received] , said elemental symbol width being equal to or narrower than the data path; and

processing the unified [stream of media data] media data streams at substantially peak operation; and

63. (Amended) The method defined in claim 62, wherein the step of processing the unified [stream of] media data streams comprises the steps of:

storing the [stream of] unified media data streams in a general register file;

performing multi-precision arithmetic operations on the stored [stream of] unified media data streams based on programmed instructions, the multi-precision arithmetic operations including Boolean, integer and floating point mathematical operations;

manipulating [the] component fields of the unified media data streams based on programmed instructions that implement copying, shifting and re-sizing operations; and

performing multi-precision mathematical operations on the stored [stream of] unified media data streams based on programmed instructions, the mathematical operations including finite group, finite field, finite ring and table look-up operations.

B1 Cont'd.

C

365. (Amended) The method defined in claim 1 ~~53~~, further comprising the step of providing a set of instructions to process the [stream of] unified media data streams, the set of instructions including load, store, synchronization, branch and gateway instructions.

B2

52